GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WITING, AT LEAST TAKES OF THE CONTROL THE CONTROL OF T 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.

3.IMPORTANT NOTICE:SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.

4. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF SAN DIEGO MUNICIPAL CODE AND STORM WATER STANDARDS MANUAL.

5. "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT- ISSUING AUTHORITY.

6. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION

7. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR. 8. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY

THE CITY OF SAN DIEGO. 9. THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK, THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALI COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY, ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND GAME. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.

GROUND WATER DISCHARGE

1. ALL GROUND WATER EXTRACTION AND SIMILAR WASTE DISCHARGES TO SURFACE WATER NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF SATE ORDER NO R9-2009-0002 NPDES CAG919002.

2. THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.

3. ALL GROUND WATER EXTRACTIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2007-0034 NPDES NO. CAG919001.

SHEET INDEX

TITLE SHEET	SHEET 1
MAINTENANCE PLAN	SHEET 2
MAINTENANCE METHODOLOGIES AND BMP NOTES	SHEET 3
MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS AND PEIR ENVIRONMENTAL MITIGATION MEASURES	SHEET 4

REFERENCE DRAWINGS

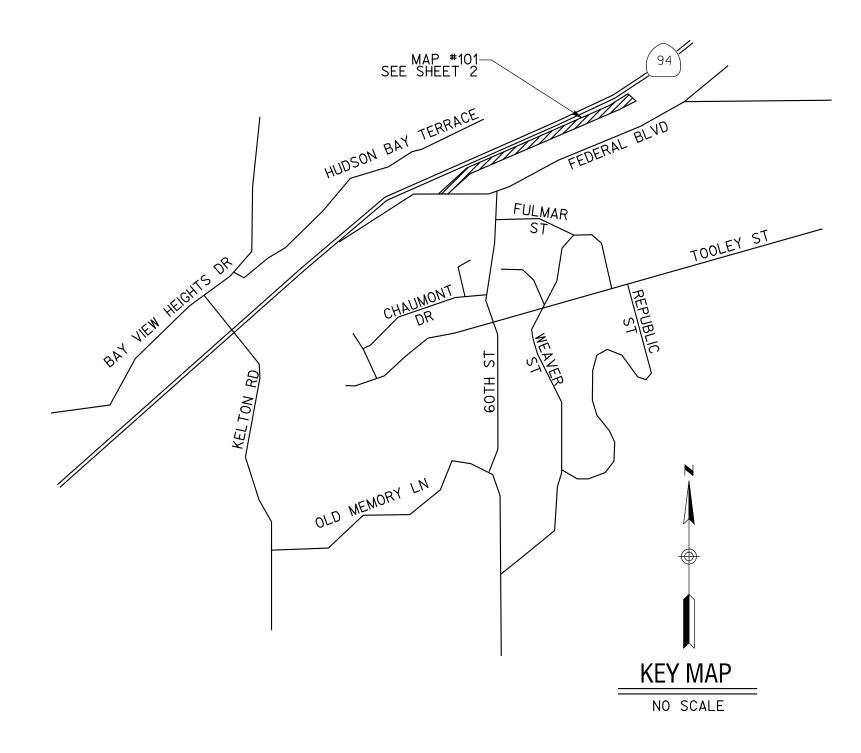
GRADING PLAN FOR ENCANTO INDUSTRIAL PARK CITY OF SAN DIEGO DWG NO. 14482-D

PLANS FOR THE IMPROVEMENTS IN AND ADJACENT

TO ENCANTO INDUSTRIAL PARK, CITY OF SAN DIEGO DWG NO. 14482-D

PLANS FOR THE IMPROVEMENT OF FEDERAL BLVD. BETWEEN 60TH STREET & STATE HIGHWAY 94. CITY OF SAN DIEGO DWG NO. 20039-D

MAINTENANCE PLANS FOR: SOUTH CHOLLAS CREEK CHANNEL MMP MAP#101



TOPOGRAPHY SOURCE

CITY OF SAN DIEGO SANGIS 2014 2 FOOT CONTOURS, NAVD88

BENCHMARK

BRASS PLUG SOUTHEAST CORNER FEDERAL BLVD. COUNTY & MALLARD ST. ELEV. 295.989 M.S.L. DATUM

STORM WATER PROTECTION NOTES

1. THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER R920070001; AND RISK LEVEL/TYPE: CHECK ONE BELOW ☐ CGP RISK LEVEL 1 ☐ CGP LUP TYPE 1 ☐ CGP RISK LEVEL 2 ☐ CGP LUP TYPE 2

2. WDID NO: NOT APPLICABLE 3. CHECK ONE

⋈ NOT APPLICABLE

☐ CGP RISK LEVEL 3

☐ THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT, THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED. ☐ THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER PHASE.

□ CGP LUP TYPE 3

4. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP OR SWPPP AS APPLICABLE.

5. WATERSHED: PUEBLO SAN DIEGO

6. HYDROLOGIC SUB AREA NAME: _CHOLLAS

7. HYDROLOGIC SUB AREA NUMBER: ____908.22

WATER POLLUTION CONTROL PLAN FOR SOUTH CHOLLAS CREEK CHANNEL MAINTENANCE PROJECT PREPARED BY:

McGRATH CONSULTING PO BOX 2488 EL CAJON, CA. 92021

(619) 443-3811

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

CARSON P. EDGINGTON R.C.E. NO. 76519

STREET NAME



SPEED



STREET DATA TABLE

CLASSIFICATION

5620 FRIARS ROAD SAN DIEGO, CA 92110 619-291-0707 (FAX) 619-291-4165

ADT

(MPH) (VEHICLES) (FT)

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO. MAINTENANCE OF CONCRETE & EARTHENED CHANNELS TO REMOVE ACCUMULATED SEDIMENT AND OTHER DEBRIS

STANDARD SPECIFICATIONS:

DOCUMENT NO.

STANDARD SPECIFICATIONS FOR PUBLIC WORKS PITS070112-01 CONSTRUCTION (GREENBOOK), 2012 EDITION CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PITS070112-02

PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL PITS070112-04 OF UNIFORM TRAFFIC CONTROL DEVICES, 2012 EDITION CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. PITS070112-06 CUSTOMARY STANDARD SPECIFICATIONS, 2010 EDITION

STANDARD DRAWINGS **DESCRIPTION** DOCUMENT NO.

PITS070112-03 CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION

CALIFORNIA DEPARTMENT OF TRANSPORTION U.S. PITS070112-05 CUSTOMARY STANDARD PLANS, 2010 EDITION

CALIFORNIA STORMWATER QUALITY ASSOCIATION, CASQA MANUAL STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK PORTAL: CONSTRUCTION, JANUARY 2015 **LEGEND**

EXISTING IMPROVEMENTS <u>SYMBOL</u> EXIST. CONTOURS EXIST. LOT LINE EXIST, CURB INLET EXIST. STORM DRAIN MAIN EXIST. SEWER MAIN. EXIST. WATER MAIN... SEDIMENT AND VEGETATION REMOVAL VEGETATION MAINTENANCE ONLY...

STORM WATER MANAGEMENT BMPs

ACCESS & LOADING AREA

STAGING AREA.

<u>ITEM</u> ····SEE CASQA MANUAL STREET SWEEPING AND VACUUMING DAILY SANDBAG BARRIER SEE CASQA MANUAL SEE CASQA MANUAL EC-1 SCHEDULING SEE CASQA MANUAL EC-2 PRESERVE EXISTING VEGETATION. SEE CASQA MANUAL SE-6 SE-8 GRAVEL OR SAND BAG BARRIERS SEE CASQA MANUAL SE-5 FIBER ROLLS OR STRAW WATTLES DIVERT RUN-ON FROM SURROUNDING AREAS.....SEE CASQA MANUAL EC-9 SE-5 SE-6 SE-13 SEE CASQA MANUAL SE-4 CHECK DAMS ---SEE CASQA MANUAL WM-4 SOIL PREVENTION AND CONTROL--SEE CASQA MANUAL WM-5 SOIL WASTE MANAGEMENT SEE CASQA MANUAL WM-10 LIQUID WASTE MANAGEMENT SEE CASQA MANUAL WM-9 SANITARY WASTE MANAGEMENT STOCKPILED WASTE MANAGEMENT SEE CASQA MANUAL WM-3 SEE CASQA MANUAL WM-1 MATERIAL STORAGE -SEE CASQA MANUAL WM-2 MATERIAL HANDLING-SEE CASQA MANUAL NS-9 VEHICLE AND EQUIPMENT FUELING ---SEE CASQA MANUAL NS-6 ILLICIT CONNECTION / DISCHARGE CONTROL -SEE CASQA MANUAL NS-1 WATER CONSERVATION PRACTICE SEE CASQA MANUAL NS-2 DEWATTERING OPERATIONS SEE CASQA MANUAL WE-1 WIND EROSION CONTROL (NOT ALL WILL BE GRAPHICALLY ILLUSTRATED WITHIN THIS SITE MAP)

CONSTRUCTION SITE STORM WATER PRIORITY: LOW TITLE SHEET FOR:

> SOUTH CHOLLAS CREEK CHANNEL MMP MAP #101

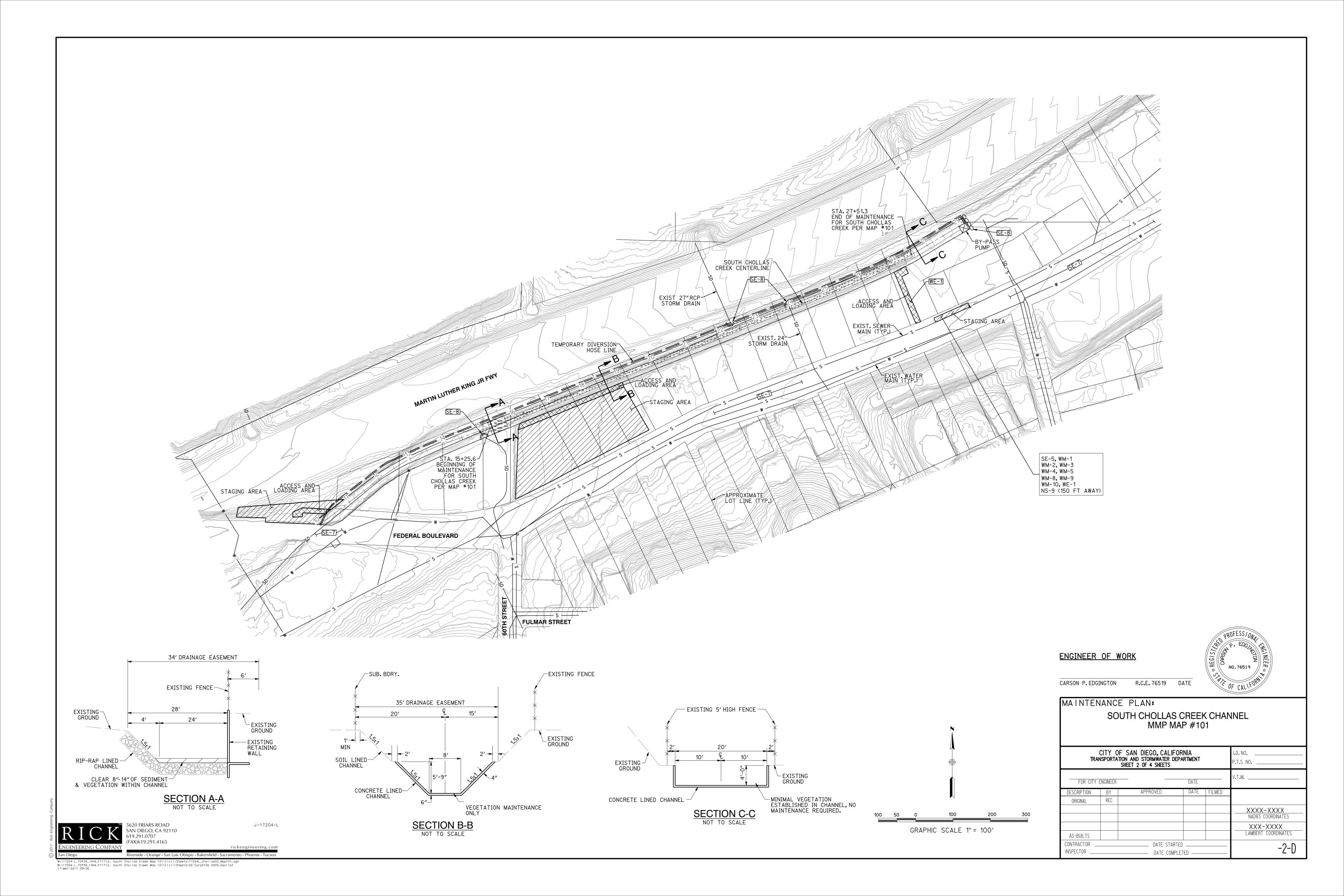
CITY OF SAN DIEGO, CALIFORNIA TRANSPORTATION AND STORMWATER DEPARTMENT SHEET 1 OF 4 SHEETS				I.O. NO P.T.S NO	
FOR CITY ENGINEER DATE			V.T.M		
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	REC				XXXX-XXXX
					NAD83 COORDINATES
					XXX-XXXX
AS-BUILTS					LAMBERT COORDINATES
CONTRACTOR DATE STARTED INSPECTOR DATE COMPLETED			-1-D		

CONSTRUCTION CHANGE TABLE WARNING CHANGE DATE EFFECTED OR ADDED SHEET NUMBERS APPROVAL NO. 1/2 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



DEVELOPMENT SERVICES DEPARTMENT

W:\17204-L_TO=39_IHHA_FY17\2_ South Chollas Creek Map 101\Civil\Sheets\17204L_Chollas01_Map101.dq
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MAINTENANCE BMPs

1. ALL BEST MANAGEMENT PRACTICES (BMPs) WILL BE IMPLEMENTED PRIOR TO OR CONCURRENT WITH CONSTRUCTION AND MAINTAINED THROUGHOUT THE PROJECT. A QUALIFIED CONTACT PERSON WILL BE RESPONSIBLE FOR IMPLEMENTING THE WATER POLLUTION CONTROL PLAN (WPCP). ALL WORK SHALL BE COMPLETED BETWEEN SEPTEMBER 15TH AND FEBRUARY 15TH UNLESS AN EXTENSION IS GRANTED IN CONFORMANCE WITH ALL APPLICABLE PERMITS.

2. CONTRACTOR WILL LIMIT ALL CONSTRUCTION RELATED ACTIVITIES TO THE PROJECT FOOTPRINT.

3. EXISTING VEGETATION TO BE PRESERVED IN PLACE SHALL BE CLEARLY MARKED WITH A BUFFER AREA FOLLOWING THE GUIDANCE OF BMP FACT SHEET EC-2.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUCH ON STREETS AND OTHER PAVED SURFACES DUE TO EXCAVATION ACTIVITIES. STREET SWEEPING AND VACUUMING WILL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET SE-7.

5. WEATHER TRIGGERED ACTION PLAN SHALL BE IMPLEMENTED WHEN THERE IS A FORECASTED 50% OR GREATER CHANCE OF LIKELY PRECIPITATION OF 0.1 INCH OR GREATER BY THE NATIONAL WEATHER SERVICE FORECAST.

6. CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER AFTER EACH RUNOFF -PRODUCING RAINFALL.

7. TEMPORARY EROSION OR SEDIMENT CONTROL MEASURES WILL BE REMOVED UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAN LEAVING THEM IN PLACE.

8. HAZARDOUS MATERIALS USED DURING MAINTENANCE WILL NOT BE STORED WITHIN 50 FEET FROM STORM WATER FACILITIES. HAZARDOUS MATERIALS SHALL BE MANAGED AND STORED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. A REGISTERED FIRST-RESPONSE, PROFESSIONAL HAZARDOUS MATERIALS CLEAN-UP/REMEDIATION SERVICE SHALL BE LOCALLY AVAILABLE ON CALL.

9. THE TREATMENT, STORAGE, AND DISPOSAL OF WASTEWATER DURING THE LIFE OF THE PROJECT MUST BE DONE IN ACCORDANCE WITH WASTE DISCHARGE REQUIREMENTS ESTABLISHED BY THE SAN DIEGO WATER BOARD PURSUANT TO CWC 13260.

10. SPILLS SHALL BE MANAGED FOLLOWING THE GUIDANCE OF BMP FACT SHEET WM-4. SPILL CLEANUP MATERIALS SHALL BE AVAILABLE ONSITE AT ALL TIMES.

11. THE CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO EXTINGUISH SMALL BRUSH FIRES (FROM SPARKING VEHICLES, ETC.) ON-SITE DURING ALL PHASES OF PROJECT ACTIVITIES, ALONG WITH TRAINED PERSONNEL FOR USE OF SUCH EQUIPMENT.

12. THE CONTRACTOR SHALL MONITOR THE 5 DAY WEATHER FORECAST. IF ANY PRECIPITATION IS FORECASTED, THE SITE SHALL BE SECURED TO PREVENT ANY CONSTRUCTION RELATED MATERIALS FROM LEAVING THE SITE AND ENTERING THE CHANNELS. NO CONSTRUCTION ACTIVITIES SHALL OCCUR DURING RAIN EVENTS.

13. SAMPLING AND ANALYSIS, MONITORING AND REPORTING, AND POST-MAINTENANCE MANAGEMENT OF THE PROJECT SHALL BE CONDUCTED AS DETERMINED NECESSARY BY THE CITY OF SAN DIEGO.

14. CHANNELS WILL BE INSPECTED WITHIN 72 HOURS OF THE FIRST 2-YEAR STORM FOLLOWING MAINTENANCE. IF SUBSTANTIAL EROSION HAS OCCURRED, EROSION CONTROL MEASURES RECOMMENDED BY THE FIELD ENGINEER WILL BE IMPLEMENTED TO REMEDIATE EROSION AREAS AND TO MINIMIZE FUTURE EROSION.

15. CONTRACTOR SHALL PROVIDE TRAINING FOR ALL PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ONSITE BMPs.

16. THE QUALIFIED CONTACT PERSON WILL ASSIGN A MONITOR FOR DAILY INSPECTION OF THE BMPs EACH MORNING. THE MONITOR WILL CHECK THE NATIONAL WEATHER SERVICE FORECAST, COMPLETE BMP INSPECTION CHECKLIST, PERFORM ANY NECESSARY BMP MAINTENANCE/REPAIRS, AND REPORT THE RESULTS TO THE QUALIFIED CONTACT PERSON. COMPLETED INSPECTION CHECKLIST WILL BE KEPT WITH THE WPCP.

17. PREVIOUSLY UNDISTURBED STAGING AREAS WILL BE REVEGETATED WITHIN 30 DAYS OF COMPLETION OF MAINTENANCE ACTIVITIES. THE REVEGETATED AREAS WILL BE MONITORED FOR A PERIODS OF NOT LESS THAN 25 MONTHS AFTER PLANTING.

18. FINAL LOCATION OF CHANNEL CENTERLINE WILL BE DETERMINED IN THE FIELD AND COORDINATED WITH THE NECESSARY PROJECT SPECIALIST (BIOLOGIST, HISTORICAL MONITOR, ETC.)

SOUTH CHOLLAS CREEK CHANNEL - MMP MAP No. 101 IMP MAINTENANCE METHODOLOGY TABLE

FACILITY/CHANNEL	SOUTH CHOLLAS CREEK CHANNEL - MAP NO. 101				
DIMENSIONS	TRAPAZOIDAL, EARTHEN BASE WITH CONCRETE SIDES 50'LENGTH APPROX. 28' TOP WIDTH 24'-35'BOTTOM WIDTH 6'IN DEPTH 0.5'-2'OF SEDIMENT MAXIMUM ESTIMATED CUBIC YARDS OF MATERIAL REMOVAL (SEDIMENT AND VEGETATION): 6,530	TRAPAZOIDAL, CONCRETE-LINED 1370'LENGTH APPROX. 28' TOP WIDTH 24'-35' BOTTOM WIDTH 6' IN DEPTH MAXIMUM ESTIMATED CUBIC YARDS OF MATERIAL REMOVAL (VEGETATION ONLY): 850			
MAINTENANCE METHOD	MECHANIZED SEDIMENT & VEGETATION RE	MOVAL			
EQUIPMENT (EQUIPMENT WILL BE EQUIVALENT OR SMALLER IN SIZE/TYPE)	* GRADALL (5100 SERIES) * SKID STEER/TRACK STEER (CAT 289D) * DOZER (CAT D6) * EXCAVATOR (CAT 349) * FRONT-END LOADER (CAT 966) * DUMP TRUCKS(S) (12 YD) * 6"PUMP(S) OR SMALLER	KID STEER/TRACK STEER (CAT 289D) OZER (CAT D6) XCAVATOR (CAT 349) RONT-END LOADER (CAT 966) UMP TRUCKS(S) (12 YD)			
SCHEDULE	IN CHANNEL MAINTENANCE WILL TAKE APF 6:00 AM TO 6:00 PM	PROXIMATELY 6 DAYS			
STAFFING	10 TO 14 PEOPLE				
MAINTENANCE PROCEDURE	<u> </u>				
CHANNEL SEQUENCE	1. SOUTH CHOLLAS CREEK CHANNEL (CONCE BEGINNING OF RIPRAP SOUTH CHOLLAS WITH CONCRETE SIDE WALLS) (STATION 2. BEGINNING OF RIPRAP TO (STATION 15- CHOLLAS CREEK CHANNEL (EARTHEN BOT (STATION 15+25.6)	CREEK CHANNEL (EARTHEN BOTTOM 15+75.6) +75.6) END OF RIPRAP SOUTH			
ACCESS & LOADING AREA(S)	ACCESS AREA(S) (STATION 27+05.2) DOZER/EXCAVATOR/LOADER ENTER/EXIT(S EXISTING EARTHEN ACCESS EASEMENTS A 6062 FEDERAL BLVD. ADDITIONAL PROPOSI THROUGH PRIVATE PROPERTY AT 6144 FE LOADING AREA(S) (STATION 27+64.9) EXCAVATOR/FRONT-END LOADER LOADS TI ACCESS RAMPS.	T 2870-3648 FEDERAL BLVD & ED ACCESS AREA MAY BE REQUIRED DERAL BLVD.			
STAGING & STOCKPILE AREA	DOZER/EXCAVATOR/FRONT-END LOADER W ACCESS EASEMENTS MENTIONED ABOVE. A IMMEDIATELY TO A LEGAL DISPOSAL SITE	LL MATERIALS WILL BE HAULED			
METHODOLOGY	1. DRY WEATHER FLOW DIVERSION BERM (PUMP(S) WILL BE PLACED AT EASTERN I DIVERSION PIPES WILL BE PLACED ON I EXTENDED TO A DISCHARGE AREA WEST 2. DOZER/EXCAVATOR/FRONT-END LOADER & LOADING AREA(S). 3. DOZER PUSHES VEGETATION & SEDIM LOADER, STATIONED INSIDE OF CHANNEL 4. EXCAVATOR/FRONT-END LOADER SCOOPS INTO WAITING DUMP TRUCKS, LOCATED ACCESS RAMP (S). 5. DUMP TRUCKS HAUL MATERIAL TO LEGA 6. DOZER/EXCAVATOR/FRONT-END LOADER 7. DRY WEATHER DIVERSION BERM, DIVERSI	LIMITS OF CHANNEL CLEANING. EASTERN SIDE OF THE CHANNEL AND OF THE MAINTENANCE LIMITS. ENTER/EXIT(S) CHANNEL AT ACCESS ENT TO EXCAVATOR/FRONT-END ., WITHIN ACCESS & LOADING AREA(S). S MATERIAL & LOADS MATERIAL AT BOTTOM OF AL DISPOSAL SITE. EXIT CHANNEL.			
POST-MAINTENANCE	1. DEMOBILIZE EQUIPMENT. 2. REMOVE TEMPORARY CONSTRUCTION BM	PS.			
OTHER NOTES	1. SWEEPER SWEEPS ADJACENT PUBLIC RIG TRUCK LOADING SITES AT PROJECT'S C 2. EQUIPMENT FUELED OUTSIDE CHANNEL OF FROM WATERS OF US/STATE. 3. DEWATERING PUMP(S) MAY BE USED AT PONDED WATER PRIOR TO EQUIPMENT E DISCHARGED JUST WEST OF THE PROJE	COMPLETION. & LOCATED AT LEAST 150' VARIOUS LOCATIONS TO REMOVE ENTERING THE CHANNEL.WATER WILL BE			

ENGINEER OF WORK

CARSON P. EDGINGTON R.C.E. 76519 DATE

PROFESS/OWAL ENGINEED TO NO. 76519

NO. 76519

NO. 76519

AINTENANCE	METHODOLOGY	AND	BMP	NOTES:
SOU ⁻	TH CHOLLAS CRI	EEK C	HANN	IEL
	MMP MAP #	¥101		

CITY OF SAN DIEGO, CALIFORNIA TRANSPORTATION AND STORMWATER DEPARTMENT SHEET 3 OF 4 SHEETS				I.O. NO	
FOR CITY	ENGINEER		DATE		V.T.M
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	REC				
					NAD83 COORDINATES
AS-BUILTS					XXX-XXX LAMBERT COORDINATES
CONTRACTOR INSPECTOR		DATE STARTE DATE COMPLI			-3-D

RICK

5620 FRIARS ROAD
SAN DIEGO, CA 92
619.291.0707
(FAX)619.291.4165

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San Diego Riverside - Orange - San Luis Obispo - Bakersfield - Sacramento - Phoen
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MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS:

- 1. BIO-1: RESTRICT VEHICLES TO ACCESS DESIGNATED IN THE MMP.
- 2. BIO-2: FLAG AND DELINEATE ALL SENSITIVE BIOLOGICAL RESOURCES TO REMAIN WITHIN OR ADJACENT TO MAINTENANCE AREA PRIOR TO INITIATION OF MAINTENANCE ACTIVITIES IN ACCORDANCE WITH THE SITE SPECIFIC INDIVIDUAL BIOLOGICAL ASSESSMENT (IBA), INDIVIDUAL HYDROLOGY AND HYDRAULIC ASSESSMENT (IHHA), AND/OR INDIVIDUAL MAINTENANCE PLAN (IMP) PREPARED FOR THE WORK.
- 3. BIO-3: CONDUCT A PRE-MAINTENANCE MEETING ON SITE PRIOR TO THE START OF ANY MAINTENANCE ACTIVITY THAT OCCURS WITHIN OR ADJACENT TO SENSITIVE BIOLOGICAL RESOURCES. THE PRE-MAINTENANCE MEETING SHALL INCLUDE A QUALIFIED BIOLOGIST, FIELD ENGINEER, PLANNER, EQUIPMENT OPERATORS/SUPERINTENDENT AND OTHER KEY PERSONNEL CONDUCTING OR INVOLVED IN CHANNEL MAINTENANCE ACTIVITIES. THE QUALIFIED BIOLOGIST SHALL POINT OUT OR IDENTIFY SENSITIVE BIOLOGICAL RESOURCES TO BE AVOIDED DURING MAINTENANCE, FLAG/DELINEATE SENSITIVE RESOURCES TO BE AVOIDED, REVIEW SPECIFIC MEASURES TO PROTECT SENSITIVE BIOLOGICAL RESOURCES AS NECESSARY. THE BIOLOGIST SHALL ALSO REVIEW THE PROPOSED EROSION CONTROL METHODS TO CONFIRM THEY WILL NOT POSE RISK TO WILDLIFE (E.G., NON-BIODEGRADABLE BLANKETS MAY ENTANGLE WILDLIFE).
- 4. BIO-4: AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.
- 5. BIO-5: CONDUCT APPROPRIATE PRE-MAINTENANCE SURVEYS IF MAINTENANCE IS PROPOSED DURING THE BREEDING SEASON OF A SENSITIVE ANIMAL SPECIES (JANUARY 15 TO AUGUST 31). IF SENSITIVE ANIMAL SPECIES COVERED BY THE PROGRAM ENVIRONMENTAL IMPACT REPORT (PEIR) ARE IDENTIFIED, THEN APPLICABLE MEASURES FROM THE MITIGATION MONITORING AND REPORTING PLAN (MMRP) SHALL BE IMPLEMENTED UNDER THE DIRECTION OF A QUALIFIED BIOLOGIST TO AVOID SIGNIFICANT DIRECT AND/OR INDIRECT IMPACTS TO IDENTIFIED SENSITIVE ANIMAL SPECIES. IF SENSITIVE ANIMAL SPECIES ARE IDENTIFIED DURING PRE-MAINTENANCE SURVEYS THAT ARE NOT COVERED BY THE PEIR, SWD SHALL CONTACT THE APPROPRIATE WILDLIFE AGENCIES AND ADDITIONAL ENVIRONMENTAL REVIEW UNDER CEQA WILL BE REQUIRED.
- 6. BIO-6: REMOVE ARUNDO THROUGH ONE, OR A COMBINATION OF, THE FOLLOWING METHODS;(1) FOLIAR SPRAY (SPRAYING HERBICIDE ON LEAVES AND STEMS WITHOUT CUTTING FIRST) WHEN ARUNDO OCCURS IN MONOTYPIC STANDS, OR (2) CUT AND PAINT (CUTTING STEMS CLOSE TO THE GROUND AND SPRAYING OR PAINTING HERBICIDE ON CUT STEM SURFACE) WHEN ARUNDO IS INTERMIXED WITH NATIVE PLANTS. WHEN SEDIMENT SUPPORTING ARRUNDO MUST BE REMOVED, THE SEDIMENT SHALL BE EXCAVATED TO A DEPTH SUFFICIENT TO REMOVE THE RHIZOMES, WHEREVER FEASIBLE. FOLLOWING REMOVAL OF SEDIMENT CONTAINING RHIZOMES, LOOSE RHIZOME MATERIAL SHALL BE REMOVED FROM THE CHANNEL AND DISPOSED OFFSITE. AFTER THE INITIAL TREATMENT, THE AREA OF REMOVAL SHALL BE INSPECTED ON A QUARTERLY BASIS FOR UP TWO YEARS, OR UNTIL NO RESPROUTING IS OBSERVED DURING AN INSPECTION. IF RESPROUTING IS OBSERVED, THE CUT AND PAINT METHOD SHALL BE APPLIED TO ALL RESPROUTS.
- 7. BIO-7: AVOID MECHANIZED MAINTENANCE WITHIN 300 FEET OF A COOPER'S HAWK NEST, 900 FEET OF A NORTHERN HARRIER'S NEST, OR 500 FEET OF ANY OTHER RAPTOR'S NEST UNTIL ANY FLEDGLINGS HAVE LEFT THE NEST.
- 8. WM-1: DISPOSE AND TRANSPORT COMPOSTABLE GREEN WASTE MATERIAL TO AN APPROVED COMPOSTING FACILITY, IF AVAILABLE.
- 9. WM-2: RE-USE EXCAVATED MATERIAL, WHENEVER POSSIBLE, AS FILL MATERIAL, AGGREGATE SAND REPLENISHMENT, OR OTHER RAW MATERIAL USES. RE-USED MATERIAL (AGGREGATES, SOIL, SAND OR SILT) SHALL BE DOCUMENTED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- 10. WM-3: SEPARATE WASTE TIRES FROM EXCAVATED MATERIAL AND TRANSPORT THEM TO AN APPROPRIATE DISPOSAL FACILITY. IF MORE THAN NINE TIRES ARE IN A VEHICLE OR WASTE BIN AT ANY ONE TIME, THEY SHALL BE TRANSPORTED UNDER A COMPLETED COMPREHENSIVE TRIP LOG (CTL) TO DOCUMENT THAT THE TIRES WERE TAKEN TO AN APPROPRIATE DISPOSAL FACILITY.
- 11. WM-4: LOG AND TRANSPORT ANY HAZARDOUS MATERIALS ENCOUNTERED DURING MAINTENANCE TO A HAZARDOUS WASTE STORAGE, RECYCLING, TREATMENT OR DISPOSAL FACILITY. PERSONNEL HANDLING HAZARDOUS MATERIALS SHALL HAVE THE APPROPRIATE TRAINING TO HANDLE, STORE, TRANSPORT, AND/OR DISPOSE THE MATERIAL. HAZARDOUS MATERIALS (E.G., MACHINE OIL, MERCURY SWITCHES, AND REFRIGERANT GASES) SHALL BE REMOVED FROM APPLIANCES AND DISPOSED IN ACCORDANCE WITH THIS PROTOCOL.
- 12. WQ-2: PREVENT OFF-SITE SEDIMENT TRANSPORT DURING MAINTENANCE THROUGH THE USE OF EROSION AND SEDIMENT CONTROLS WITHIN STORM WATER FACILITIES, ALONG ACCESS ROUTES AND AROUND STOCKPILE/STAGING AREAS. INSTALL BMPS SUCH AS SILT FENCES, FIBER ROLLS; GRAVEL BAGS; TEMPORARY SEDIMENT BASINS; STABILIZED MAINTENANCE ACCESS POINTS (E.G., SHAKER PLATES); CONTAINMENT BARRIERS (E.G., SILT FENCE, FIBER ROLLS AND/OR BERMS) FOR MATERIAL STOCKPILES; AND PROPERLY FITTED COVERS FOR MATERIAL TRANSPORT VEHICLES. REMOVE TEMPORARY EROSION OR SEDIMENT CONTROL MEASURES UPON COMPLETION OF MAINTENANCE UNLESS THEIR REMOVAL WOULD RESULT IN GREATER ENVIRONMENTAL IMPACT THAN LEAVING THEM IN PLACE.
- 13. WQ-3: STORE BMP MATERIALS ON-SITE TO PROVIDE COMPLETE PROTECTION OF EXPOSED AREAS AND PREVENT OFF-SITE SEDIMENT TRANSPORT.
- 14. WQ-4: PROVIDE TRAINING FOR PERSONNEL RESPONSIBLE FOR THE PROPER INSTALLATION, INSPECTION, AND MAINTENANCE OF ON-SITE BMPS.
- 15. WQ-7: AVOID STORING HAZARDOUS MATERIALS USED DURING MAINTENANCE WITHIN 50 FEET FROM STORM WATER FACILITIES. HAZARDOUS MATERIALS SHALL BE MANAGED AND STORED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- 16. WQ-8: STORE MAINTENANCE-RELATED TRASH IN AREAS AT LEAST 50 FEET FROM STORM WATER FACILITIES, AND REMOVE ANY TRASH RECEPTACLES REGULARLY (AT LEAST WEEKLY).
- 17. WQ-10: INSPECT EARTHEN-BOTTOM STORM WATER FACILITIES WITHIN 30 DAYS OF THE FIRST 2-YEAR STORM FOLLOWING MAINTENANCE. IMPLEMENT EROSION CONTROL MEASURES RECOMMENDED BY THE FIELD ENGINEER, SUCH AS FIBER BLANKETS, TO REMEDIATE SUBSTANTIAL EROSION WHICH HAS OCCURRED AND TO MINIMIZE FUTURE EROSION.

PEIR ENVIRONMENTAL MITIGATION MEASURES

GENERAL MITIGATION MEASURE 1 OF THE MITIGATION MONITORING AND REPORTING PROGRAM (MMRP) ADOPTED FOR THE MMP REQUIRES ALL OF THE MITIGATION MEASURES IDENTIFIED IN THE PROGRAM EIR (PEIR) BE INCLUDED WITH THE MAINTENANCE DOCUMENTS AND CONTRACT SPECIFICATIONS FOR EACH MAINTENANCE ACTIVITY. TO FULFILL THIS REQUIREMENT, THE MMRP IS INCLUDED IN ITS ENTIRETY AS ATTACHMENT 1 TO THIS IMP.

ADDITIONAL MAINTENANCE REQUIREMENTS

- 1. THE CITY SHALL NOTIFY CALIFORNIA DEPARTMENT OF FISH & WILDLIFE (CDFW), IN WRITING, AT LEAST FIVE DAYS PRIOR TO INITIATION OF CONSTRUCTION (PROJECT) ACTIVITIES. NOTIFICATION SHALL BE SENT TO CDFW'S SOUTH COAST OFFICE, ATTN: STREAMBED ALTERATION PROGRAM-SM# 1600-2011-0271-R5.
- 2. AVOID THE INTRODUCTION OF INVASIVE PLANT SPECIES WITH PHYSICAL EROSION CONTROL MEASURES.
- 3. PRIOR TO COMMENCING ANY MAINTENANCE ACTIVITY WHICH MAY IMPACT SENSITIVE BIOLOGICAL RESOURCES, THE MONITORING BIOLOGIST SHALL VERIFY THAT THE FOLLOWING ACTIONS HAVE BEEN TAKEN, AS APPROPRIATE:
 - -FENCING, FLAGGING, SIGNAGE OR OTHER MEANS TO PROTECT SENSITIVE RESOURCES TO REMAIN AFTER MAINTENANCE HAS BEEN IMPLEMENTED;
 - -NOISE ATTENUATION MEASURES NEEDED TO PROTECT SENSITIVE WILDLIFE ARE IN PLACE AND EFFECTIVE;
 - -NESTING BIRDS HAVE BEEN IDENTIFIED AND NECESSARY MAINTENANCE SETBACKS HAVE BEEN ESTABLISHED IF MAINTENANCE IS TO OCCUR BETWEEN JANUARY 15 AND AUGUST 31.
- 4. IF ANY WILDLIFE IS ENCOUNTERED DURING THE COURSE OF MAINTENANCE, SAID WILDLIFE SHALL BE ALLOWED TO LEAVE THE MAINTENANCE AREA UNHARMED.

ADDITIONAL MITIGATION MEASURES

1. TO SATISFY MITIGATION MEASURE 4.4.3, A QUALIFIED ARCHAEOLOGIST AND THE NATIVE AMERICAN MONITOR SHALL ATTEND THE PRE-MAINTENANCE MEETING. VEGETATION REMOVAL AND PREPARATION OF THE ACCESS AND STAGING AREAS WITHIN SOUTH CHOLLAS CREEK CHANNEL MAP 101 SHALL BE MONITORED TO AVOID IMPACTS TO ANY CULTURAL RESOURCES LOCATED WITHIN THESE AREAS. BASED ON DISCUSSIONS WITH CITY MAINTENANCE STAFF AND FIELD CONDITIONS, THE ARCHAEOLOGIST AND NATIVE AMERICAN MONITOR SHALL DETERMINE THE FREQUENCY OF MONITORING OF SEDIMENT REMOVAL DURING MAINTENANCE ACTIVITIES IN CONSULTATION WITH THE CITY5#32S MMC. A MEMORANDUM SUMMARIZING THE RESULTS OF THE MONITORING SHALL BE PREPARED AND SUBMITTED TO THE CITY5#32S MMC WITHIN 30 DAYS OF COMPLETING THE MONITORING.

ENGINEER OF WORK

CARSON P. EDGINGTON R.C.E. 76519 DATE

PROFESS/ONAL ENGINEER & NO. 76519

NO. 76519

REP & CALIFORNIA CONTRACTOR OF CALIFORNIA CONTRACT

MASTER MAINTENANCE PROGRAM (MMP) PROTOCOL REQUIREMENTS A	AND
PEIR ENVIRONMENTAL MITIGATION MEASURES:	
SOUTH CHOLLAS CREEK CHANNEL	
MMP MAP #101	

CITY OF SAN DIEGO, CALIFORNIA TRANSPORTATION AND STORMWATER DEPARTMENT SHEET 4 OF 4 SHEETS				I.O. NO	
FOR CITY I	ENGINEER		DATE		V.T.M
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	REC				
					XXXX-XXXX
					NAD83 COORDINATES
					XXX-XXXX
AS-BUILTS					LAMBERT COORDINATES
CONTRACTOR DATE STARTED				_1_D	
INSPECTOR DATE COMPLETED				⁻⁴⁻ 0	

FIGURERING COMPANY

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